

APPARATUS AND METHOD FOR TRACE  
STREAM IDENTIFICATION OF A PAUSE  
POINT IN CODE EXECUTION SEQUENCE

**Abstract of the Invention**

1 A PAUSE POINT signal is generated in a target processor  
2 when execution of an original code sequence is to be  
3 terminated and a new code sequence is to be executed. A  
4 pause point sync marker is generated in a program counter  
5 trace stream as a result of the PAUSE POINT signal. The  
6 sync marker includes a plurality of packets, the packets  
7 identifying that the sync marker is has been generated as a  
8 result of the PAUSE POINT signal. The pause point sync  
9 marker identifies the program counter address at the time  
10 of the generation of the PAUSE POINT signal and relates the  
11 PAUSE POINT signal to a timing trace stream. The PAUSE  
12 POINT signal is generated during a pause in the processor  
13 instruction execution while instructions from the original  
14 code sequence are stored in the pipeline flattener and  
15 before the new code instructions have been entered in the  
16 pipeline flattener.

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